

APPENDIX A

MANDATORY TECHNICAL EVALUATION CRITERIA

A.1 MANDATORY TECHNICAL EVALUATION CRITERIA

Mandatory Evaluation Criteria (gatekeepers) are 'must meet' criteria. These criteria are assessed on a Yes/No basis as to whether the criteria are met. An assessment of 'No' against any criterion shall technically disqualify the tender and shall not be further evaluated against Qualitative Criteria.

The Mandatory Criteria is defined in Table 0-1.

The Mandatory Criteria will be evaluated based on the information provided in accordance with Appendix C: Tender Returnable Technical Schedules, which describes the specific tender returnable and technical schedules that the Bidder must return during the Tender phase.

Table 0-1: Mandatory Technical Evaluation Criteria

Criteria	Mandatory Technical Criteria Description	Reference to Technical Specification / Tender Returnable	Motivation for use of Criteria
1.	Bidder's Experience		
1.1	<p><u>EPC capability</u> Successful execution of at least one (1) completed commercial (not pilot or demonstration) ground mounted, grid connected, front-of-meter Solar PV project within the last seven (7) years, as the principal EPC Contractor. This single project (either axis tracking or fixed tilt) shall be ≥ 20 MWac.</p> <p>The Bidder must provide proof of the completed and operational solar PV project(s) in the form of a signed contract, completion certificate or a take-over certificate with references from solar PV plant Owner(s) / Developer(s).</p> <p>The bidder must have at least 5 years experience in the construction and commissioning of substations up to 132kV of 20MVA and above. Proof of completed projects, clients names and hand-over certificates to be submitted.</p>	Appendix C: Tender Returnable Technical Schedules	The Bidder must exhibit the requisite capability and previous experience to provide assurance that the required works can be successfully executed.
1.2	<p><u>O&M capability</u> Successfully performed Operations and Maintenance (O&M) duties for at least two (2) years on at least one (1) ground mounted (either axis tracking or fixed tilt) PV plant with a minimum capacity of 20 MWac.</p> <p>The bidder must provide proof of EPC Contract(s) or O&M Contract(s) accordingly.</p> <p>Where the O&M duties are subcontracted, a signed letter of agreement between the two parties shall be submitted of the completed duties.</p>	Appendix C: Tender Returnable Technical Schedules	The Bidder must exhibit the requisite capability and previous experience to provide assurance that the required O&M can be successfully performed.

Tutuka Solar PV Plant Tender Technical Evaluation

Criteria	Mandatory Technical Criteria Description	Reference to Technical Specification / Tender Returnable	Motivation for use of Criteria
2.	Solar PV Plant Capacity		
2.1	<p><u>Required capacity</u></p> <p>The AC capacity of the Solar PV plant shall be minimum capacity of 24 MWac and maximum export power evacuation of 36 MWac. The minimum DC capacity shall be ≥ 28 MWp with DC/AC ratio be ≥ 1.15.</p> <ul style="list-style-type: none"> The installed DC capacity shall be defined as the aggregate rated power of all PV modules under Standard Test Conditions (STC) The installed AC capacity shall be defined as the aggregate rated power output of all inverters operating at unity power factor (pf = 1.0) at a temperature of 50 °C. Using an estimate of usable land of 35.5ha <p>The Bidder shall submit an Energy Yield Assessment report as evidence.</p>	<ul style="list-style-type: none"> 559-189375010, Installation of Solar PV Plant at Tutuka Power Station Functional Specification Section 1 and 4 Appendix C: Tender Returnable Technical Schedules 	<p>The Project Maximum Export Capacity (MEC) to the grid is 36 MWac (measured at the PoC). Hence, the Solar PV plant AC capacity shall at least be ≥ 24 MWac.</p> <p>The DC capacity should be oversized in relation to the AC capacity (DC/AC ratio greater than 1), thereby allowing for greater energy harvest when the solar production is below the inverter's rating. A DC/AC ratio of at least 1.15 will require a DC capacity of at least 28 MWp.</p>